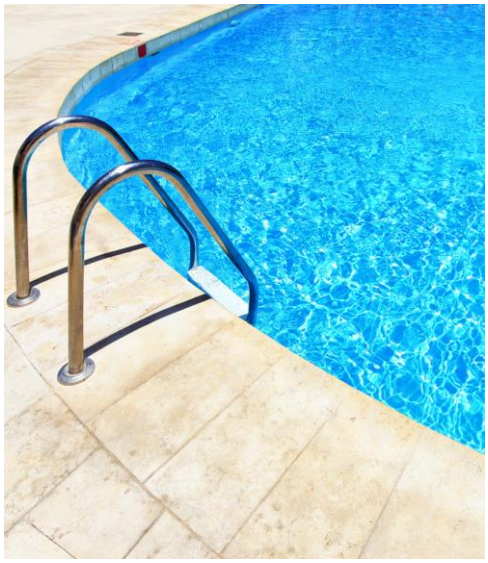
High Performance Paint

Product Data Sheet

EPOTEC NT EPOXY

MAR 20



DESCRIPTION: A two pack epoxy coating designed for application to a dry surface. When fully cured, its film is taint free, non-toxic, hygienic, easily cleaned, tile-like and seamless. It possesses very high chemical resistance.

PERFORMANCE:

- Controlled pot life to get best performance.
- Good long term durable coating with best UV stability.
- New 5 kg packaging better value for money.
- A multi-purpose high build coating for interior and exterior surfaces.
- Suitable for immersion in water and swimming and spa pools, <40^{0}C.
- Suitable for industrial situations; on walls, floors and machinery that are subject to attack by water, chemicals, mineral oil etc.
- Standard hardener for use in temperatures 13 – 20 ^{0}C
- Hi Temp hardener for use in temperatures 20 - 30^{o}C.

LIMITATIONS: Not suitable for use as a tank lining for vegetable oils and fatty acids such as lactic or acetic acid. Product has strong exotherm. Not recommended as a coating for polyethylene or acrylic swimming pools. Do NOT apply EPOTEC NT EPOXY when the air temperature is below 15^{o}C and no application at all should be attempted below 13^{o}C ground temperature particularly in wet or humid conditions.

TECHNICAL DATA:

Resin:	Epoxy/Polyamine
Solvent:	Not Applicable
Finish:	Gloss (85%+ @ 60^{o})
Colour:	Std Colours/Limited Colours
Touch Dry (minimum):	5-7 hours @ 20^{o}C
Recoat Time (minimum):	10-12 hours @ 20-25^{o}C
	Full Cure – 7 days
Primer:	See over
Number of Coats:	Minimum of 2
Dry Film Thickness:	150 microns
Wet Film Thickness:	150 microns
Durability:	Excellent
Thinning and Clean Up:	Autospeed 2K thinner normal
VOC:	15-23 g/litre
Pot Life:	90 mins @ 20 ^{0}C
	Aim to apply product in 60 mins.
Mixing Ratio:	4:1 by weight
Pack Size:	5 Kg

SPREAD RATE:

Theoretical Coverage:	20-25 m^{2}/pack/coat 1st Coat
	30 m^{2}/pack/coat 2nd Coat.

Coverage depends on surface profile and porosity.

COMPUTER CODES:

Epotec NT Epoxy (Std Colours)	72-13XX
Standard Hardener	72-0000
Hi Temp Hardener	72-0001

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EPOTEC NT EPOXY

SURFACE PREPARATION:

(Refer to Surface Preparation and Paint Systems for general guidance and EPOTEC NT EPOXY Application Notes, for specific details).
All surfaces must be clean, dry, algae free and stable. All cracks and joints need to be treated as appropriate. EPOTEC NT EPOXY will not bridge moving cracks or joints. Control joints need to be fully expressed and designed for the movement expected and filled with suitable sealant. Commencement of work on a surface means you accept that surface as suitable. If in any doubt seek further advice.

CONCRETE, CEMENT PLASTER, OLD AND NEW (UNPAINTED) INCLUDING MINERAL – AGGREGATE SURFACES:
New Cementitious Surfaces: Allow to cure 28 days concrete, 7 days render and similar. New, tight surfaces: Provide open surface. Remove laitance with 10% Hydrochloric Acid Etch. Saturate the surface with a low pressure spray, allow to react for 10 mins, rinse/brush off completely and allow to dry. See Epotec Specification PS-C001 Acid Etching of Concrete with Hydrochloric Acid for full details.

CONCRETE, CEMENT PLASTER, FIBREGLASS, OLD AND NEW (PAINTED) INCLUDING MINERAL – AGGREGATE SURFACES:
If painted, check paint type. Remove all loose paint, and all acrylic, chlorinated rubber or similar. Maybe applied only over epoxy type coatings. Refer to Epotec Specification PS-C003 Chlorinated Rubber Paint Identification Test for full details. All epoxy coatings need to be well adhered and clean, dry and stable. Best to use abrasive blast, grinding or ultra high pressure water blast to prepare surfaces. Be careful not to create undue profile or damage underlying substrate, including mineral surfaces. All indentations and hollows to be filled with suitable fillers designed for water immersion.

SUBSTRATE FOR PAINTING:

Substrate / Surface	Application
Tiles	×
Concrete	✓
Fibreglass	✓
Acrylic	×
Polyethylene	×
Plaster	✓

Painted Surfaces	Epotec NT Epoxy
Chlorinated Rubber	×
Acrylic Paint	×
Old Epoxy	✓
Bitumen paint	×

OTHER SURFACES:
Consult Coating Technologies for specific information.

ALL SURFACES:
Ensure all body fats, oil, grease, dirt, algae are removed. Use commercial detergent or alkali wash. Pay particular attention to the waterline, steps and areas where people sit or stand in existing pools. Rinse thoroughly and allow to dry. For algae infected areas, apply pool shop algaecide at about 5% solution in water, late in day, leave overnight. Next morning rinse thoroughly and allow to dry.

MIXING:

A two pack epoxy hardener for use with Epotec NT swimming pool paint.
Epotec NT hardener Standard Code 72-0000
Epotec NT hardener Hi Temp Code 72-0001

PERFORMANCE:

- Standard is the normal general use hardener for most conditions except application in high temperatures.
- Hi Temp is for use in application temperatures exceeding 20°C.

TECHNICAL DATA:

Pot Life: Standard 90 mins @ 20°C
Aim to apply mixed paint in 60 minutes
Hi Temp 150 min @ 25°C
Aim to apply mixed paint in 100 minutes
Mixing Ratio: 4:1 by weight
Pack Size: 1 Kg

POT LIFE:

Standard

Temperature °C	Pot Life	Workable Time	Touch Dry Time
13	6 Hrs	1.5 Hrs	12 Hrs
20	1.5 Hrs	60 min	6 Hrs
25	75 min	45 min	5 Hrs

Aim to apply mixed paint in 60 minutes

Hi Temp

Temperature °C	Pot Life Hours	Workable Time	Touch Dry Time
20	3 Hrs	1.5 Hrs	6 Hrs
25	2.5 Hrs	1.5 Hrs	6 Hrs
30	95 min	80 min	5 Hrs

Aim to apply mixed paint in 100 minutes

APPLICATION:

Surfaces to be dry. Minimum surface temperature is 13°C. Check with IR non-contact thermometer if in doubt. If surface temperature falls below 13°C, curing will slow and only continue at the normal rate, when the temperature rises. EPOTEC NT EPOXY may be affected with white blooming if it gets wet and when not fully cured. An extra coat may be required. Keep product between 15-25° C before use. If applied when too cold it's hard to spread out to get the correct film build. Adding thinners does not help.

For porous surfaces it's usual to apply one coat of CONCRETE WB EPOXY SEALER first, allow to cure overnight. (See separate CONCRETE WB EPOXY SEALER for Data Sheet for details).

EPOTEC NT EPOXY is mixed after adding all Hardener into larger Resin tin. Use slow speed power mixer for 3 mins and make sure all sides and bottom are completely mixed and homogenous. Do not mix in air. Immediately empty into roller tray and commence using. No waiting. Use cans with same batch number for last coat to maintain a uniform colour.

On smooth surfaces use 8 – 12 mm Epoxy safe rollers and 12 – 25 mm on rougher surfaces. Rougher surfaces, longer nap. Apply in "H" pattern, to a uniform thickness. Lay off in ONE direction. Use a good quality brushes for cutting in.

Allow to cure overnight (usually) 12 - 48 hours. If after 48 hours, lightly sand before second coat, with 100# grit. Spraying, consult with Coating Technologies for full details before starting the job.

Apply at least 2 coats, 3 on high wear areas, such as steps, ledges etc. Maximum nominal thickness per coat 150µ, but will cure up to 2 mm thick.

Protect EPOTEC NT EPOXY from dew, rain and dirt for the first 6 – 12 hours at 20°C.

Has strong exotherm and do not use when it gets hot or viscosity rises making it difficult to roll.

THINNING AND CLEAN UP:

Thinning is not normally required. For clean-up of brushes and rollers use AUTOSPEED 2K thinner normal, or discard after each coat. First coat maybe thinned up to 2 – 5% with AUTOSPEED 2K thinner normal to aid roller/ brush out application and cutting in.

ENVIRONMENTAL:

DO NOT POUR paint or wash down storm or water courses. ALWAYS dispose of in accordance with Local Government Regulations. Soak up spills with absorbent materials and dispose of properly. If spraying use suitable respiratory protection. Refer to the SAFETY DATA SHEETS.